

SOUTH TECH COURSE OFFERINGS 2018-2019

Auto Body - focuses on the repair and appearance of the interior and exterior of vehicles. Students learn how to assess, estimate, and repair using modern welding, sanding, masking and painting techniques and the same advanced equipment used in professional auto collision repair companies. Students learn from I-CAR curriculum and earn advanced college credit from State Technical College in Missouri.

COLLEGE CREDIT OFFERED: Universal Technical Institute, 12 units

CERTIFICATIONS OFFERED: Automobile Service Excellence (ASE) Student Certification in Nonstructural/Paint & Refinishing, S/P2 Safety Certification

Automotive Technology - driven by the 4 main systems of vehicle operation: brakes, suspension and steering, engine performance, and electrical/electronics. Students will diagnose, service, and repair a wide range of vehicles alongside their ASE certified Master Technician instructor. The classroom includes modern diagnostic equipment which students operate as they work toward multiple ASE certifications

COLLEGE CREDIT OFFERED: Universal Technical Institute, 12 units

CERTIFICATIONS OFFERED: Automobile Service Excellence (ASE) Student Certification in Brakes, Electrical, Engine Performance, Suspension, S/P2 Safety Certification

Carpentry, Seniors Only - students build a skill set that includes framing, estimating, roofing, and interior finishing. Students learn how to read and interpret blueprints and build structures using a wide range of professional power tools and carpentry materials.

COLLEGE CREDIT OFFERED: St. Louis Community College, 6 credits

APPRENTICESHIP CREDIT OFFERED: Carpenter's Apprentice, 1 - 3 days of Pre-Employment Course, 1 specialty or elective unit of training, advanced placement testing in related areas per joint agreement with the St. Louis Carpenters Joint Apprenticeship Program • Construction Craft Laborers - credit for 40 hours of apprentice training and 500 hours of on-the-job training

CERTIFICATIONS OFFERED: Home Builders Institute (HBI) – Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction Industry

Cisco Networking Academy - Honors course in which students learn how to design, install and troubleshoot complex computer networks. Students will navigate a variety of projects as they complete Cisco's online curriculum in preparation for their certification exams.

COLLEGE CREDIT OFFERED: St. Louis Community College, 10 credits • St. Charles Community College, 25 credits • Jefferson College, 5 credits

CERTIFICATIONS OFFERED: CompTIA A+ Certification, Cisco Certified Entry Level Network Technician (CCENT) Certification

Construction Innovations - allows students to customize a year or semester of construction exploration to match their interests. A wide variety of quarter long courses give students a solid foundation of basic knowledge and experience. Students can continue into an Advanced Construction course in their second year. Students choose from: Carpentry, Electrical Trades, General Construction, Floor Layers Middle Apprenticeship, or Heating, Ventilation, & Air Conditioning.

CERTIFICATIONS OFFERED: Home Builders Institute (HBI) – Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction

Cosmetology - offers the same curriculum as a beauty college including all hair, nail, and skincare services. Students learn in a full-service salon along with classroom instruction from licensed Cosmetologists. By graduation, students will have had the opportunity to earn of all the hours required to take their Missouri State Board certification exam to become a licensed cosmetologist.

CERTIFICATIONS OFFERED: Cosmetology Missouri State Board of Certification

Culinary Arts - taught in a modern, fully equipped, restaurant style kitchen. Students plan, prepare, and cater meals alongside professional chefs in both the classroom and at various competitions throughout the year.

COLLEGE CREDIT OFFERED: St. Louis Community College, 5 credits • Sullivan University, 3 credits • Illinois Institute of Art, 20 ¼ hours • Johnson and Wales University, 13.5 ¼ hours • Robert Morris University, 9 ¼ hours

CERTIFICATIONS OFFERED: American Culinary Federation Certification • Servsafe Certification

Design & Entrepreneurship - Inventors will thrive in this product development course designed to support creation and innovation. Bring your ideas to fruition with support from local St. Louis professionals and your fellow South Tech students. Learn how to protect, promote, pitch, and produce the products or services you are inspired to create in this course.

CERTIFICATIONS OFFERED: Occupational Safety and Health Administration (OSHA) – 10 hour Certification

Dental Sciences - gives students a clinical experience in the classroom and through internships which are available during the senior year. Our modern operatory allows students to conduct mock exams and perform X-rays, preventative practices, and emergency care using professional dental equipment

COLLEGE CREDIT OFFERED: Missouri Baptist University, Dual Credit, 8 credits

CERTIFICATIONS OFFERED: Missouri Expanded Dental Assistant Certification • CPR Certification

Early Childhood Education - turns students into teachers in our certified preschools. Students research, create, and implement lesson plans while learning effective preschool teaching techniques. Upon graduation, students will have a portfolio of work to present to colleges and/or employers.

COLLEGE CREDIT OFFERED: St. Louis Community College, 6 credits

CERTIFICATIONS OFFERED: American Association of Family & Consumer Sciences (AAFCS) – Early Childhood Certification • CPR and First Aid Certifications

Electrical Trades, Seniors Only - teaches students how to design, stage, and install commercial and residential electrical wiring for power and telecommunications systems. Skills include blueprint interpretation, layout, design, and programming equipment while emphasizing logical thinking.

APPRENTICESHIP CREDIT OFFERED: Construction Craft Laborers - credit for 40 hours of apprentice training and 500 hours of on-the-job training

CERTIFICATIONS OFFERED: Home Builders Institute (HBI) – Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction Industry

Emergency Medical Technician - brings students into real world emergency scenarios. Students are trained to perform detailed trauma patient assessments using advanced medical and diagnostic equipment and in the operation of emergency response and rescue vehicles.

COLLEGE CREDIT OFFERED: St. Louis Community College, 10 credits

CERTIFICATIONS OFFERED: Emergency Medical Technician Basic certification through National Registry, National First Responder certification, Hazardous Materials Awareness and Operations certification

Electronics & Robotics Engineering - focuses on exploring the complex electrical, electronic, mechanical, and robotic components used in manufacturing and industry. Students design and program robots for the annual FIRST Robotics Competition using modern equipment and techniques.

COLLEGE CREDIT OFFERED: St. Louis Community College, 4 credits

CERTIFICATIONS OFFERED: International Society of Certified Electronics Technicians (ISCET) – 4 certifications in DC Electronics, AC Electronics, Semiconductor, and Digital Electronics

Firefighting - an academy level course that allows students to do the bulk of their required Fire Academy hours at the high school level. Using a wide range of firefighting and life-saving equipment, students develop their skills through rigorous mental and physical training.

COLLEGE CREDIT OFFERED: St. Louis Community College, 3 credits

CERTIFICATIONS OFFERED: Fire I and Fire II certifications, National First Responder

Floor Layers Middle Apprenticeship, Seniors Only - allows students to begin their post-secondary training while in high school. While learning to install hardwood, vinyl, carpet, and ceramic flooring students earn apprenticeship credit that can also lead to an associate's degree shortly after high school graduation. Paid summer internships with licensed contractors are also available.

APPRENTICESHIP CREDIT OFFERED: U.S. Department of Labor Journey Level Certificate – this certificate can be articulated into college credit with Ivy Tech Community College of Indiana and completes all but 5 courses required to earn an Associate's degree in Applied Science.

CERTIFICATIONS OFFERED: Home Builders Institute (HBI)– Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction Industry Certification

Graphic Design - channels students' passion for art into advertising and marketing projects using the full Adobe Suite of design software. Through advanced tutorials combined with a study of fonts, color theory, sketching and drawing, students produce a professional portfolio of their work to share with prospective colleges and employers.

COLLEGE CREDIT OFFERED: St. Louis Community College, 3 credits

CERTIFICATIONS OFFERED: Adobe certifications

Health Sciences - immerses students into healthcare through lab and patient care experiences, high-level academic coursework in anatomy and physiology, and clinical rotations at area hospitals and assisted living facilities.

ARTICULATING INSTITUTIONS & CREDIT OFFERED: St. Louis Community College, 4 credits • Missouri Baptist University, Dual Credit, 8 credits

CERTIFICATIONS OFFERED: Certified Nursing Assistant (CNA) – State of Missouri certification • Occupational Safety and Health Administration (OSHA) –10 hour General Industry – Healthcare Certification • CPR and First Aid certifications

Heating, Ventilation, & Air Conditioning, Seniors Only - teaches students to design, install, repair, and maintain residential and commercial refrigeration, heating, and air conditioning systems. Students will learn blueprint reading, electrical schematics, and operational sequencing charts as they progress toward certification.

APPRENTICESHIP CREDIT OFFERED: Construction Craft Laborers - credit for 40 hours of apprentice training and 500 hours of on-the-job training

CERTIFICATIONS OFFERED: Home Builders Institute (HBI) – Pre-Apprenticeship Training Core Certification • Occupational Safety and Health Administration (OSHA) – 10 hour Construction Industry Certification • Environmental Protection Agency (EPA) – 608, Refrigeration Handling certification

Law Enforcement - introduces students to the Police Academy through an array of training exercises, crime scenarios, self-defense, and fitness training. Students will learn conflict mediation and resolution, investigation techniques, and be trained in the use of advanced security related training equipment, including vehicles.

COLLEGE CREDIT OFFERED: University of Central Missouri, Dual Credit, 3 hours

CERTIFICATIONS: Missouri Law Enforcement Skills and Knowledge (MOLESK) Certification

Pharmacy Sciences, 1 year only - students use the same advanced equipment as industry professionals as they perform testing and research drug treatments and interactions. In preparation for their Pharmacy Technician Certification Board exam, students learn skills required for careers in retail, hospital, and medical center pharmacies. Juniors in Pharmacy can choose to continue their studies in the Pre-Professional Health Sciences Academy.

CERTIFICATIONS OFFERED: PassAssured

Pre-Professional Health Sciences Academy, Seniors Only - provides an intense exploration of the medical field for college bound students. Through shadowing opportunities, guest lecturers, medical terminology study, and anatomy and physiology curriculum, students learn about a wide variety of patient care professions and leave our program with a solid understanding of those careers and how to pursue them.

COLLEGE CREDIT OFFERED: Missouri Baptist University, Dual Credit, 8 credits

CERTIFICATIONS OFFERED: Occupational Safety and Health Administration (OSHA) –10 hour General Industry – Healthcare Certification • CPR and First Aid Certifications

Precision Machining - teaches students to invent, design, and manufacture tools and components for a wide range of production needs. Using advanced computer controlled technology, 3D printing, and traditional machining skills, students develop projects designed with MasterCAM and Computer Aided Design (CAD) software

COLLEGE CREDIT OFFERED: St. Louis Community College, 5 credits

CERTIFICATIONS OFFERED: National Institute for Metalworking Skills (NIMS) – Measurement, Materials & Safety Certification, Job Planning, Benchwork & Layout Certification

Veterinary Assistant - explores the science of veterinary medicine including animal care and training, clinical procedures, medical terminology, grooming, and disease prevention. Students interact daily with a wide variety of animals fostered in our facilities, providing their medical care, while learning from certified professionals.

COLLEGE CREDIT OFFERED: Jefferson College, 2 credits

CERTIFICATIONS OFFERED: Certified Vet Assistant – State of Missouri Vet Med Association

Web & Computer Programming - teaches students how to write and edit source code and applets using several programming languages including HTML and Java. Students will design, create, and maintain software, databases, and web pages while earning certifications.

COLLEGE CREDIT OFFERED: St. Louis Community College, 5 credits

CERTIFICATIONS OFFERED: Microsoft Technology Associate (MTA) Certification – HTML5 or Software Development

Welding - trains students to design, engineer, build, and troubleshoot complex metal fabrication challenges. Through high-level training, competitions, and work ethic, students perfect modern welding processes while earning welding certifications

APPRENTICESHIP CREDIT OFFERED: Construction Craft Laborers – Credit for 40 hours of Apprentice Training and 500 hours of On-The-Job Training

CERTIFICATIONS OFFERED: American Welding Society (AWS) – multiple entry-level welding certifications available, S/P2 Safety Certification